

Exhibit 89

Assured Dental Lab

Quality Products at Amazing Prices.

Case after case.

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Toll free: 1-877-283-5351

Products & Services

Download our [RX Forms](#) to get started today or call us at **1-877-283-5351** for additional product information.

Dental Product Information

Full implant solutions for all indications.

We work with a specialized team, with years of experience in the design and manufacturing of dental implants. We offer diverse and the most popular [implant systems](#).



Duraflex™

Duraflex Partial Denture delivers patient satisfaction!

- Natural looking-virtually disappears in the mouth
- Easy to adjust, even easier to polish and it's repairable
- Won't absorb moisture: stain and odor resistant
- Reliable-virtually unbreakable
- Comfortable thermoplastic material-lightweight and flexible



Calypso™

The New Generation All-Ceramic Restorations are supported by a high strength zirconia framework and given the translucency nature of zirconia, all restorations closely mimic the appearance of natural dentition. The Calypso Zirconia framework is available in 8 vita classic core shades to optimize color and clarity. Zirconia, at 1200 MPa flexural strength, is better able to resist crack propagation and with two overlays of porcelain, the restorations have life-like aesthetics. Indications are anterior, posterior and up to 6-unit bridges.



FMZ is Now Available!

FMZ crowns and bridges are full-milled, pure Zirconia which means no porcelain and no possibility of porcelain fractures! As a full gold crown replacement, FMZ offers: natural aesthetics and lifelike characteristics, 1200 MPa flexural strength, adjustability and stainability, excellent marginal fit, conventional chamfer prep and cementation. FMZ is available at half the price of a gold crown. Indications are: crowns and up to 4-unit bridges, crowns over implants and crowns with limited occlusal clearance.



3M™ ESPE™ Lava™

3M ESPE Lava Crown and Bridges are a part of the Lava Precision Solutions System for anterior and posterior crowns and bridges up to 48mm in length. Lava™ Crowns and Bridges delivers: precision CAD/CAM system for outstanding marginal fit, proven high-strength performance-1440 MPa, natural translucency and patented shading system available in 8 shades producing unmatched aesthetics. Lava restorations may be cemented with traditional or self-adhesive resin cement and prep requires shoulder or chamfer to allow precise margin detection. Approved indications are: single crowns; 3- and 4-unit bridges with multiple abutments; 5- and 6-unit bridges; Splinted crowns (up to 6 units); Cantilever bridges (up to 4 units); custom implant abutments.



Metal Cast Partials

Metal Cast Partials represent an excellent practical and affordable prosthetic choice available for your patients. Even though cast metal partials are made of stronger materials, they are less bulky. They fit better and last longer, providing years of comfort for your patient. When appropriate, their use should be considered as a viable treatment option. We offer a wide variety of removable prosthetics featuring:

- o Non-Allergenic (nickel and beryllium free)
- o Unsurpassed memory
- o Ease of adjustment
- o Beautiful polishability
- o Using Ivoclar Vivadent Premium BlueLine Teeth



Dentures

It is clear that there still is a tremendous need for removable appliances today. In the United States alone, it



is estimated that there will be approximately 38 million edentulous elderly adults by the year 2020 compared with only 33.6 million in 1991; the aging of the "baby boom" population largely accounts for the increase. While the basic process of making dentures has changed little over the past several decades, new materials and techniques provide functional, esthetic restorations that offer exceptional value to patients. Implant treatment is a tremendous adjunct to removable prosthodontics in the treatment of edentulous patients, but it is not within the financial reach of all dental patients. Assured Dental Laboratory possesses the knowledge and trained technicians to deliver complete dentures that mimic the color and characterization of natural gums. All dentures come in a variety of shades with Ivoclar Vivadent Premium BlueLine teeth.



Ceramage®

Achieve PURE esthetic results with Ceramage, a Zirconium Silicate integrated indirect restorative with positive 5-year clinical studies. A PFS (progressive fine structure) filling of more than 73% plus an organic polymer matrix delivers superior flexural strength and unsurpassed polishability. Ceramage® provides superior wear characteristics; simulating the wear and translucency of natural dentition, excellent for implants, inlays, onlays, crowns and bridges. Ceramage allows for conventional cementation and is extraordinarily biocompatible.



IPS e.max

IPS e.max comprises highly esthetic and high strength materials for both the press and the cadcam techniques. Recommend for **single units & up to 4-unit bridges** conventional preparation and cementation. With e.max you can choose the framework material. Either glass ceramic or zirconium oxide the new material generation is based on nano-fluorapatite and endows the restorations with utmost individual appearance and true to nature properties.



IPS Empress Esthetic

IPS Empress Esthetic raises the bar for **pressable ceramics**. For over 15 years Empress still sets the standard for all ceramic esthetics. Offering:

- » True to nature esthetics
- » Homogeneous leucite crystal distribution allowing for higher flexural strength
- » Improved optical properties
- » Optimized color and clarity
- » 11 Ingot shades extending shades in bleach range



Captek

The ultimate in **porcelain fused to metal crown and bridge**, Captek offers all ceramic esthetics and fit. Recommend for single crowns and up to 3 unit bridges. The capillary technology offers dentist and patients the beauty, health and longevity of gold produced through a new process with unparalleled strength, accuracy and esthetic. [Click here for more information.](#)



Cercon Zirconia

Smart Ceramics for Crowns and Bridges

Yttria-stabilized Zirconia oxide is an innovative system for **metal-free single crowns** and **up to 6-unit bridges**. Recommended for any placement in the mouth, Cercon is the strongest and the toughest **all-ceramic restoration** being offered today. Conventional preparation, cementation and adhesive bonding techniques. Over 2,000,000 units placed since its introduction.

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Exhibit 90

Restorative Options

Authentic Dental Laboratory is proud to be a full service dental laboratory. Our Laboratory features some of the most current, technically advanced products that deliver reliable restorations with superior esthetics at competitive prices.

“NEWS FLASH”

Authentic Lab owns and operates the most advanced CAD/CAM milling center in South Texas. Call us for your milling and digital scan needs

LAVA



Lava offers precision CAD/CAM milling for outstanding marginal fit. Zirconia's exceptional strength has 5 years of clinical history with 100% survival rate. Natural translucency and excellent esthetics. A good choice for singles anywhere and bridges up to 12 units.

Excellent Fit
Strength
Esthetics
Proven Performance

Procera combined with All-Ceram porcelain allows us to recreate the beauty of natural teeth. You can cement with the crown & bridge cement of your choice or bond in place. Because of Procera's exceptional strength utilizing aluminium and zirconia cores you can prescribe it for any position in the mouth with confidence that it will not fracture under occlusal loading. CAD-CAM technology makes the passive fit possible. Once again, a 360° 1-1.5mm chamfer prep with rounded internal line angles and 1.5-2mm occlusal reduction is protocol.

Procera



Procera Bridge

Procera Bridge is an all-ceramic restorative system from

Ceramco that delivers the strength of a PFM and the beauty of all-ceramics. Bridges up to 14 units anywhere.



Empress has been a successful and widely-used all-ceramic system. This pressed or milled, highly translucent ceramic has beautiful, life-like esthetics and wears like natural teeth. Empress is indicated for anterior single crowns and veneers and must be adhesively bonded.

Empress



Emax



Emax offers the possibility of all-ceramic bridges to the 2nd bicuspid. Super-strong lithium disilicate frameworks and the fluorapatite layering ceramic allow for restorations very similar to natural teeth. Bond or cement – your choice.

ChromaTech Veneers exclusively from Authentic Dental Lab are fabricated using the most advanced porcelain building techniques to achieve polychromatic esthetics. A top choice for many cosmetic dentists, ChromaTech was developed specially for esthetics in the anterior region of the mouth.

ChromaTech Veneers



GC Gradia



GC Gradia is a unique light-cured Micro-Ceramic-Composite system for crowns, bridges and veneers. The result of this restoration has an opalescence compatible to porcelain and close to natural dentition.

Captek is a 22k gold substructure that enhances the porcelain giving a soft, warm, natural look. Capillary technology makes a better fit possible. The high gold content of Captek makes it an excellent choice for biocompatibility. The finest restorative system available for porcelain fused to metal crowns or bridges. Highly recommended because of esthetics, strength and purity of materials. Captek is truly the leading PFM of choice.

Captek



PFM



PFM patients today do not want pretty crowns, they want beautiful teeth. Utilizing the most advanced porcelains today that contain opalescence and natural fluorescence and applied by a skilled ceramist makes crowns look like teeth.

Implants at Authentic Dental Laboratory are supported by the team approach to implant dentistry. As a result, we can provide you with a diagnostic case plan to assist you in case design and planning, pre and post surgical treatment and a cost estimation on the proposed reconstruction.

Implants



Partials / Dentures / Attachments

Partials / Dentures / Attachments Authentic Lab's removable department offers the best in quality, service, technology, timeliness and esthetics at the prices you and your patients will appreciate. Premium



partials, dentures, comfort night guards, flippers, attachment cases and more with superior personalized service.

Milled Bars are an excellent option today when the placement of implants are a challenge. These bars are milled to perfection, and as you can see, there are no limits even when restoring more difficult cases.

Milled Bars



Snap On



Snap-On smiles are an inexpensive alternative to conventional procedures. Great for implant temporaries, cosmetic enhancement and to replace missing teeth. Most patients use this appliance as a stepping stone to permanent restorative dentistry.



Zirconia Full Contour Crowns are available in either Lava or Authentic Zirconia. This monolithic crown is great for bruxing patients, replacing full metal crowns or metal occlusion in posterior bridges or single units. With a (Lifetime Warranty) you can't go wrong.

Zirconia Full Contour



Hybrid Zirconia



Hybrid Zirconia crowns and bridges are an excellent product when occlusal clearance is a challenge. Zirconia is placed on the occlusal surface then veneered with porcelain to achieve excellent esthetics.



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services@authenticlab.com

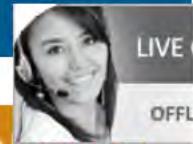
Exhibit 91



PRODUCTS

CHINA DENTAL OUTSOURCING

PRODUCTS



LIVE

OFFL

Quality is our mission

All Ceramic: All Zirconia for Bruxers

Prosthetics - All Zirconia for Bruxers

All Zirconia for Bruxers is an innovative system for metal-free crowns and bridges in the posterior used primarily for bruxers and heavy biters. The strength of zirconia restorations is well established, and the ability to provide an all zirconia restoration. The system is used to fabricate anterior or posterior single units or multi-unit bridge restorations out of translucent, biocompatible zirconia, the strongest and toughest dental ceramic.

Esthetically, they are inferior to porcelain restorations, but are superior to full metal or metal occlusal. Shades are close approximations (but cannot be exact) to the Vita 16 shade guide, hence they are best used in the posterior.

They are extremely strong; being crack and fracture resistant, and extremely durable.

[Contact us for a Price Quote.](#)

PRODUCTS

[Crown and Bridge](#)
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[All Ceramic - E.max](#)
[All Zirconia for Bruxers](#)
[Cercon Zirconia](#)
[Veneers & e.Max Thin Veneers](#)
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Exhibit 92

- Porcelain Fused to Metal
- Full Cast Restorations
- CAD/CAM & Non Metallics
 - Lava
 - Procera
 - IPS e.max
 - Cerec Connect
 - BruxZir
- Removables
- Composites & Temporaries
- Implants

★ How to Get Started

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2. [Print RX](#)
3. [Schedule Case Pickup](#)

Lava Prep & Handling Information



Lava Prep Guide



CAD/CAM & Non-Metallic Authorized Lava Milling Center



Specifications:

- 1440 MPa Proven High Strength
- 5 year clinical study with 100% survival rate
- Patented substructure available in 8 different shades
- Requested 3X more than the leading brand
- Comes with barcoded authenticity label

Indications:

Single unit crowns and bridges

Cementation:

For conventional cementation - use a glass ionomer cement (i.e. KetecTM Cem) or for self adhesive cementation please use 3M RelyX Unicem.

For additional information, please see page 14 in the Prep and Handling Guide (on the left)

Our dental laboratory specializes in **lava crowns** and **lava bridges**. We are an authorized **3M ESPE Lava Milling Center**. That means each lava crown is barcoded for authenticity and is made from the finest zirconia available. **Lava Zirconia** restorations are an ideal alternative to porcelain-fused-to metal (PFM) restorations. The zirconium oxide achieves the beauty and translucency of natural teeth. Over time, metal restorations can leave a dark metal margin where the gums recede. With **Lava zirconia**, it produces strong durable restorations and retains its original beauty for years. It is a much better alternative for those patients who have concerns about metal.

LavaTM is a registered trademark of 3M ESPE

Customer Poll

Which all-ceramic restoration do you prefer?

- IPS E.max CAD
- 3M ESPE Lava
- Procera
- IPS Empress
- Generic zirconia
- Other

[Vote](#) [Results](#)

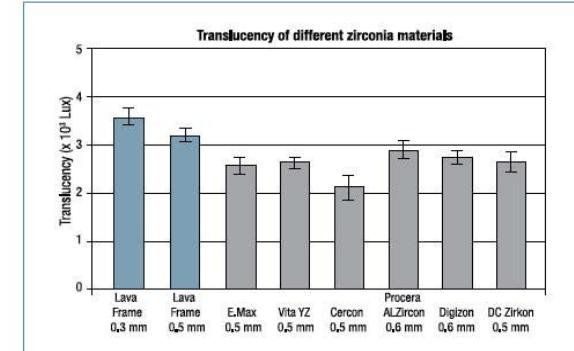
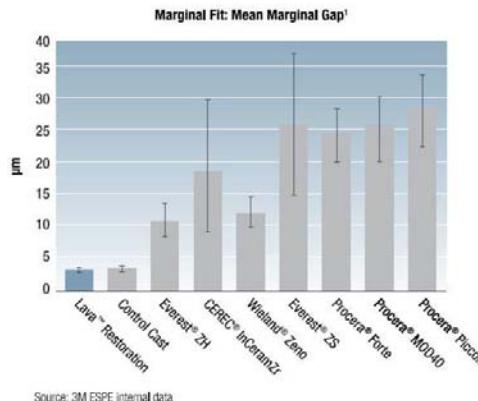


fig. 2 Light intensity transmitted through zirconia copings as detected by photo-radiometer

[Go to top](#)

Lava Authenticity

Now you can verify the authenticity of your lava restorations. Just go to 3M's website and enter your unique lava barcode.

Lava Chairside Oral Scanner

As an authorized Lava C.O.S. laboratory, you can offer your patients the convenience and comfort of digital impressions

ST Design Center

Lava design centers can enjoy flat-rate pricing and convenient 24-48hr turnaround time for their zirconia copings.

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Exhibit 93



Matt 11:28-30

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Turn Around Times in Working Days (including shipping)

PFM(up to 4 units)	10
Full Cast	10
All-Ceramic	12
Captek	12
Bridges(5 units & up)	

Dentures and Partials

Framework	11
Setup/Tryin	8
Finish	8

[Request more information.](#)

Call Toll Free: +(800) 235-4720

ZIRCONIA

Pittman Dental is proud to offer the following All-Ceramic Crown:

- [Lava](#)
- [Procera Zirconia](#)



Advantages/Patient Benefits

- High Strength And Durability
- Bio-Compatible With High Aesthetics
- Only Reliable Alternative For Patients With Metal Allergies

Indications

- Crowns
- Bridges: Of All Kinds And Different Lengths
- Implants: Abutments And Crowns

Cementation

- Traditional Cementation Or Adhesive Bonding May Be Used.

Prep Guide

Call 800-235-4720 for information.

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Exhibit 94



Full Contour Zirconia Crowns



Our Bruxzir and Pearl crowns are a durable solution that is less expensive and more esthetically pleasing than full cast crowns. Because frequent grinding or clenching of teeth puts extreme wear on dental work, your bruxing patients need a strong solution. Our Bruxzirs and Pearls deliver, with an all-zirconia structure that provides material durability... without the cost of typical PFM restoration or the obvious look of full cast metal crowns. The CAD/CAM milling technology delivers consistent quality while the all-zirconia material provides solid, chip-resistant results with no porcelain overlay.

INSTRUCTIONS FOR ADJUSTMENT AND POLISHING

Adjust using water and air spray to keep the restoration cool and to avoid micro-fractures with a fine grit diamond. If using air only, use the lightest touch possible when making adjustments. A football shaped bur is most effective for occlusal and lingual surfaces on anterior teeth; a tapered bur is the ideal choice for buccal and lingual surfaces.

Somer Dental recommends using a Brasseler USA Zirconia adjustment kit. To order call Brasseler @ 1-800-841-4522 : product order # 225.00.638. For a modified prep kit order # K000017.

INSTRUCTIONS FOR CEMENTATION

- Resin-reinforced glass ionomer cement (Rely X Luting Cement, 3M ESPS, GC Fuji Plus, GC America)
- Resin cements for short or over-tapered preparations (Rely X Unicem, 3M ESPE)

This post was written by:

Elvis - who has written 18 posts on Somer Dental Labs.

 [Contact the author](#)

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Website



Somer Dental Laboratory was founded in 1982 by Larry Sowinski, CDT and Keith Spencer, CDT. Somer is located in Zionsville, Indiana.

Everyday, our technicians set teeth, build porcelain, cast frames, wax copings, scan models, and mill crowns on schedule on time and get great report cards from our dentists. [Learn More](#)



We are proud to be a Certified Dental Lab. Certification enables us to show you we adhere to the highest standards of quality control, materials and customer service.



[Rx Form](#)

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Somer Hours of Business

We are open for business and welcome your inquiries from 7:00 a.m. to 5:00 p.m. EDT, Monday through Thursday. Our drivers pick-up and deliver cases Monday through Friday.

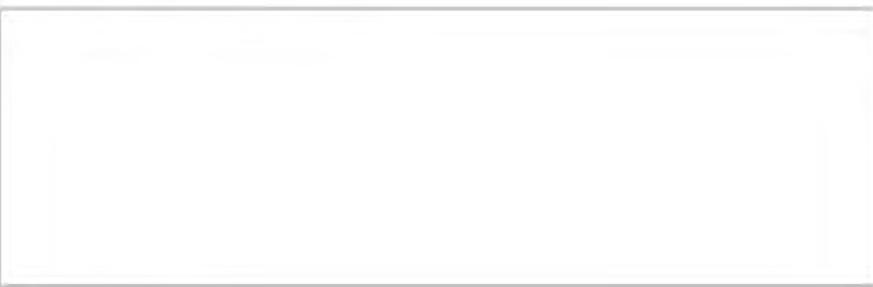
To schedule a pick-up, call 317.873.1111 or 800.283.1110 during business hours or Friday mornings. After hours, please call the Somer Pick-up Hotline at 317.873.1119.

Or [Email Us](#) for more information.

Somer's Vision and Mission Statement

Vision:

In unison, as a Team, Somer Dental Laboratories' vision is to establish an environment, which can productively provide quality products and services, education, personal growth, and financial security.



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Mission Statement:

Somer Dental Laboratories is committed to be a leader in the dental laboratory industry by educating our team to provide the highest standards of dental care through excellent service, quality products and advanced technology.

DDX Dental

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Exhibit 95

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National Association of
Dental Laboratories

 CERTIFIED
DENTAL
LABORATORY


About Us

Trachsel Dental Studio is a full service dental lab located in Rochester, MN. TDS is a proud member of the National Dental Lab Association (NADL) and the Minnesota Dental Laboratory Association (MDLA).

Trachsel Dental has 35 employees including four full time Certified Dental Technicians. Give us a call or send us your next case, we guarantee you'll be impressed!

[Learn more about us](#)

Products

Crown & Bridge

<u>BruxZir®</u>	<u>Captek™</u>
<u>Porcelain Fused to Metal</u>	<u>Fortress™</u>
<u>Pressed on Metal</u>	<u>Gold Inlays/Onlays</u>
<u>Porcelain to Zirconia</u>	<u>Full Cast Restorations</u>
<u>IPS e.max® Press</u>	

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Have you experienced full contour zirconia..? Were an authorized BruxZir lab, guaranteed youll be impressed! <http://twitpic.com/52f3ib>


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 1834 15th St. NW
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Exhibit 96

Monday, November 26, 2012

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[Conventional PFMs](#)

Removables

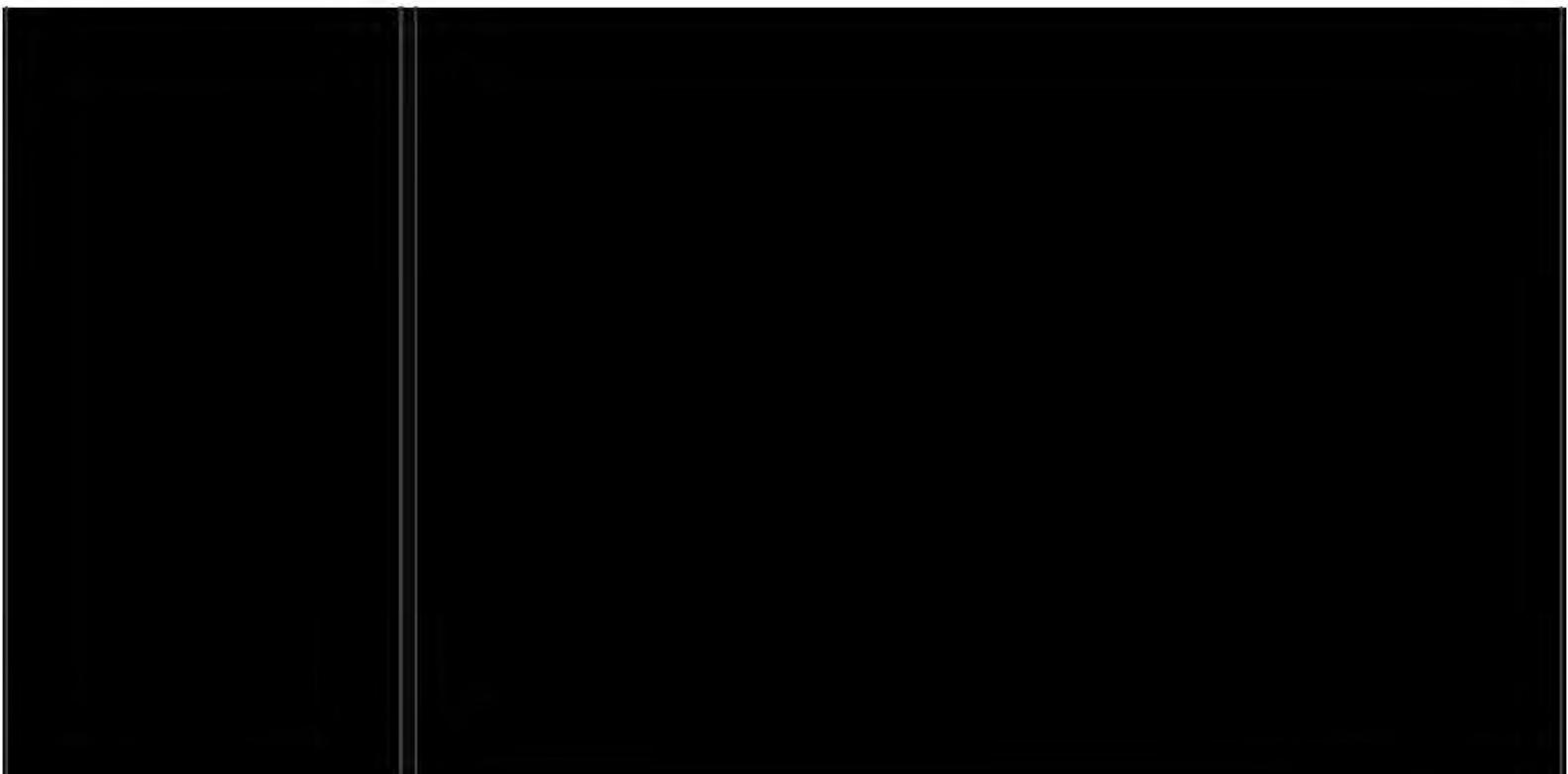
Implants

Radiographic & Surgical

Appliances



EXHIBIT 96 -108-



York Dental / Cerama Laboratory, Inc. © 2010

Designed by AMG Creative

EXHIBIT 96 -109-

Exhibit 97



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Zirconia

PFM

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PFZ - Porcelain Fused Zirconia

Supreme accuracy in fitting in crowns and bridges – PFZ allows you to achieve an extraordinarily high degree of precision and accuracy in fitting.

Crown and bridge frameworks with a minimum wall thickness (0.4 mm) and interdental linkage (9 mm²) – as with high-strength dental alloys in the area of precious metals.



FCZ - Full Contour Zirconia

Full Contour Zirconia crowns are solid zirconia with no porcelain overlay. Your patients will be happy with a tooth shaded crown instead of metal occlusal PFM and full-cast gold dental restorations. Virtually chip-proof, FCZ solid zirconia crowns and bridges are the ideal dental restoration for your bruxing and grinding patients.



Zirconia Restored Implant

Please call for more information - **888.625.5757**

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Exhibit 98

Tosch Laboratory, Inc.

A Certified CEREC inLab Crown and Bridge Dental Laboratory

LUNA Full Contour Translucent All Zirconia Crowns.

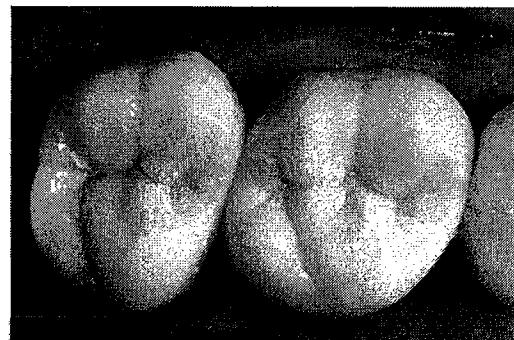
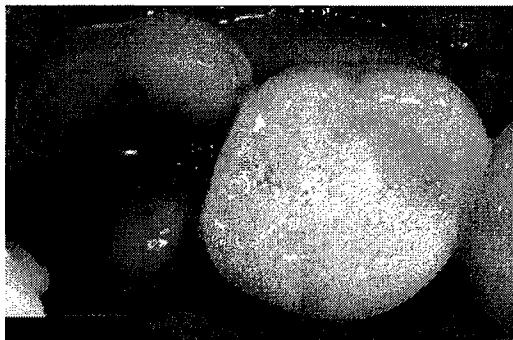
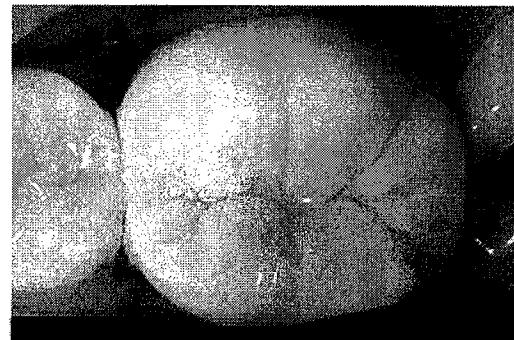
Luna translucent zirconia crowns are an esthetically pleasing alternative to full cast crowns, especially where strength is a concern. The Luna Zirconia crowns are virtually indestructible and therefore an excellent choice where there is minimal occlusal clearance or excessive interproximal space. Crowns and bridges are shaded prior to sintering so the color is internal and permanent.

"A recent study found that the degree of wear on the opposing tooth was actually four times greater with dental porcelain than in polished, unglazed zirconia, suggesting that zirconia restorations are not only more fracture-resistant than porcelain restorations, but also gentler in their functional interaction with natural dentition." In another study, "glazed Solid Zirconia crowns were found to wear compatible with enamel and virtually identical to glazed IPS e.max." Study copies are available at Tosch Laboratory.

Due to the strength of Luna Zirconia it is also an excellent choice instead of the traditional PFM bridge. It is possible to construct bridges as large as five and six units.

Contact us today to try a Luna Translucent Zirconia Crown

[Link to a study on the wear of full zirconia crowns versus standard dental porcelain on opposing dentition.](#)



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Exhibit 99

THE ART OF SMILE TECHNOLOGY
CONTACT US 604.270.2230

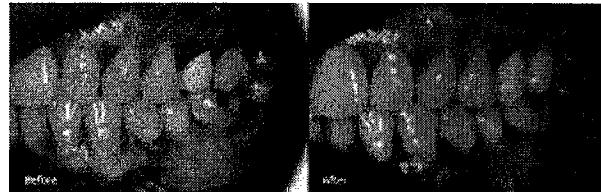
Solid Zirconia

Solid Zirconia Crowns and Bridges

These are suitable for both the anterior and posterior region. Buccal/Labial Cut-Back technique provides an excellent aesthetic appearance while maintaining high strength. Our zirconia crowns and bridges are designed and milled using CAD/CAM technology with the latest scanner from Sirona, inEOS Blue for consistent standardized quality.

Benefits:

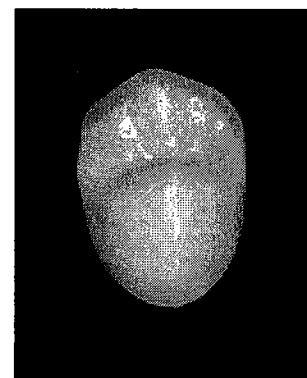
- Biocompatible
- High strength
- No metal sensitivity
- Esthetical
- Low thermal conductible



— Solid zirconia Crown (before & after)

Indications:

- Bruxers and grinders who do not desire metal occlusal PFM's or full cast crowns
- Patients who desire a tooth colored restoration but have a lack of preparation space
- Patients with metal allergies



— Solid Zirconia crown with labial layering

Preparation Requirements:

- Circular shoulder preparation with rounded inner edges or chamfer with a width of approx. 1 mm
- No feather edges
- Minimal occlusal reduction of 1.0mm
- Avoid sharp edges and angles
- Make sure to observe minimum layer thicknesses (stability of the restoration)

Cementation Recommendation:

- Resin reinforced glass ionomer cement (RelyX Luting Cement, 3M ESPE; GC Fuji Plus, GC America)
- Resin cements for short or over-tapered preparations (RelyX Unicem, 3M ESPE; Panavia F2.0, Kuraray)

Exhibit 100



ORIGIN®

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- » Strongest in Class (Documented 1,400 MPa)
- » Tested clinically safe for cytotoxicity
- » Far more chip resistant while finishing the sintered copings
- » Excellent translucency, aesthetics and 100% biocompatibility
- » High degree of clinical safety
- » Engineered with bar codes for full control of consistent sintering shrinkage
- » Conventional cementation
- » Excellent marginal accuracy
- » European CE & U.S. IdenCeram® certified

Premium Quality ORIGIN YZ Zirconia



Zirconia Advantages at a Glance

Zirconia is highly aesthetic

Zirconia is highly translucent especially when compared to traditional metal substructures and can be customized according to the 16 classic Vita shades. Zirconia restorations also solve the 'black gum line' problem inherent with traditional metal restorations which occurs when the gingiva recedes. These qualities of zirconia provide natural looking restorations which are indistinguishable from real teeth.

Zirconia is exceptionally strong

Often referred to as 'white steel', zirconia is just as strong if not stronger than metal restorations and has a high fracture resistance.

Zirconia is bio-compatible

The body accepts tissue friendly zirconia as a natural material which minimizes the potential for allergic reactions.

Zirconia is corrosion free

Zirconia does not corrode because it is "chemically inert".

Zirconia has low thermal conductivity

Most metals have a high thermal conductivity causing patients to feel greater sensitivity to fluctuations of hot or cold in the mouth. Zirconia restorations have a low thermal conductivity which helps minimize this problem.

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Full Contour Solid Zirconia

The ORIGIN® FC Zirconia is a full contoured solid zirconia crown or bridge restoration with no porcelain overlay. ORIGIN FC Zirconia restorations are both a strong and highly aesthetic alternative to metal occlusal PFM and full-cast metal restorations. Virtually unbreakable and chip-proof, ORIGIN FC Zirconia crowns and bridges are the ideal restoration for posterior molar crowns when the patient desires a tooth colored restoration but lacks the preparation space for, or has broken a PFM crown in the past.

ORIGIN Full Contour Zirconia Advantages

- A more esthetic alternative to traditional full-cast or metal occlusal alloy restorations and is ideal for bruxers & grinders who have destroyed other restorations
- At 1132 MPa Origin® Full Contour Zirconia is strong enough for both single and bridge cases
- Made with biocompatible 100% Tosoh zirconia powder
- Conventional cementation using non-expanding resin modified glass ionomer
- Virtually unbreakable and chip-proof
- Fabricated using CAD/CAM technology for consistent fit and marginal integrity
- Backed by a 10 year free replacement guarantee

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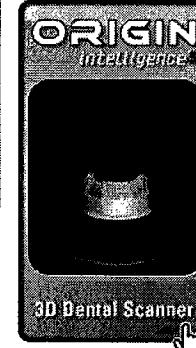
http://www.origincadc.com/products_ORIGIN-zirconia.html

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Excellent Esthetic Properties - A Translucent Substructure That is Comparable to or Better Than Leading Brands

An identical coping was milled with the Cerec machine using three of the major brands. The translucency of the material depends not only on the material properties of the ceramic, but also on the recommended thickness of the layer, i.e. the wall thickness. So we followed the minimum wall thickness requirement (0.7mm) of the inLab system for all three copings with the same design.

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ORIGIN - YZ Zirconia Blocks and Disks are Engineered to be Used for the Following Milling Systems

- Cerec® inLab®
- Wieland Zeno®Tec
- KaVo Everest®
- AmannGirrbach Ceramill

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16 Shades Possible - All Classic V Shades

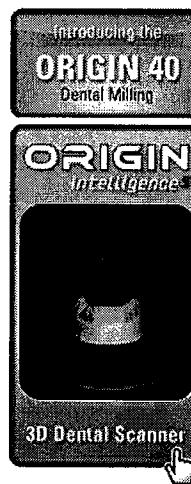
Supports Implant Bar Design

- ORIGIN zirconia can be colored by dipping the coping into the Color Liquids prior to sintering.
- ORIGIN YZ zirconia blocks can be colored according to the 16 different colors covering the entire classic-V shade range.
- The color becomes indelible through the sintering process thus avoiding the possibility of having white margins.
- After dipping, the excess liquid is removed by blow drying.
- Coloring liquid has no negative effects on the physical material properties such as flexural strength or fracture toughness



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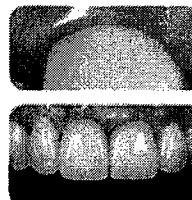
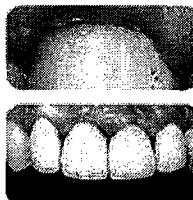


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All ceramic crowns and bridges are an excellent long term esthetic solution for patients.

- High stability and precise fit
- Excellent long term natural aesthetics
- Biocompatibility



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All Zirconia is not alike!

Not all Zirconia is alike. Yes, Zirconia can be chemically similar, but once processed the mechanical and optical properties can be significantly different. Lava™ Zirconia has now been commercially available for 10 years.



• Productivity

- High strength
- High stability

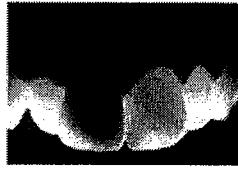
• Excellent long term aesthetics

- Tooth colored material
- Unique shading system
- Homogeneous coloring
- High, life-like translucency

• Biocompatibility

- Metal free
- Clinical studies showed no allergic reactions (gingival)
- Excellent regeneration of gingiva

• Excellent fit



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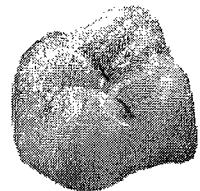
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Lava™ DVS Full Contour Digital Crown

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Lava™ DVS full contour digital crowns deliver the strength, fit and beauty you and your patients require.

Now your patients can experience the beauty of a digital Lava restoration that is more esthetic than pressed ceramics. And the digital precision of a Lava DVS full contour crown means that manual adjustments are minimized and fit is optimized.



Final restoration after characterization

More esthetic than pressed ceramics



Left: Lava DVS Zirconia Crown; Right: Pressed Zirconia Crown

- Available in a variety of **shades and translucencies**. You're sure to receive the restoration that closely mirrors your patient's natural esthetics.
- Indicated for both **posterior and anterior** restorations.
- For use with **conservative prep** and conventional cementation.
- **Digital precision** ensures consistent strength, minimal adjustments and optimized fit.

Consistent Strength

The strength of Lava™ DVS crowns makes them an ideal solution. Why? Our controlled CAD/CAM process and a strong zirconia core ensure Lava DVS restorations are strong and beautiful every time.

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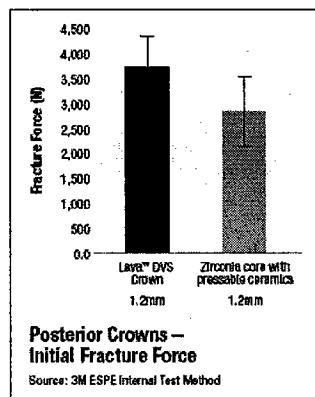
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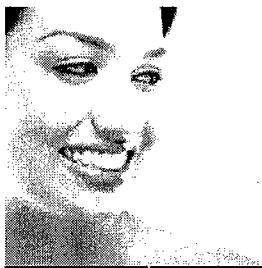
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Testimonials

"Whether it is implant dentistry, cosmetic veneers, dental appliances, or crown and bridge cases, DPS has consistently provided our dental team and patients with quality service and experience for many years."

- Dr. Jon R. Hart
 - Dr. Peter J. Blodgett
 - Dr. John E. Wilmes

"DPS plays an integral role in the exceptional care we provide for our patients."

- Dr. Patricia Meredith



Like all zirconia restorations, our Nautilus restorations offer you superior strength. But, with its enhanced anatomy and availability in Classic or 3D shades, our Nautilus Full-Contour offers you a more esthetic all-zirconia option in the posterior. And, our Nautilus Core combines the strength of a zirconia coping with the beauty of a stacked porcelain, rivaling all-ceramic and PFM alternatives.

Nautilus Full-Contour

Nautilus Full-Contour is now better than ever!

All Nautilus Full-Contour restorations designed after January 18 will have our new enhanced anatomy.

Nautilus Full-Contour crowns and bridges are solid zirconia restorations with no porcelain overlay. At 850 MPa, Nautilus Full-Contour is one of the strongest restorations available. Our technicians design Nautilus Full-Contour with enhanced anatomy and shade it to match your patient's natural tooth color; giving you a more esthetic all-zirconia option.

Ideal for posterior crowns and bridges (up to 8-unit spans), patients now have a strong alternative to full-cast restorations. Nautilus Full-Contour can also be used in the anterior for patients who need a stronger anterior restoration.

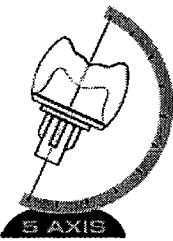
And while it is incredibly strong, polished zirconia is significantly less abrasive than standard porcelain, making it kinder to the opposing dentition than other restorative ceramic material.

Prep Requirements

- A chamfer margin is preferred; however any traditional full-cast crown prep is acceptable. Avoid a beveled or knife-edge design.

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Exhibit 103



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Full Zirconia Crowns

57573

PRINT

Zirconia full anatomical crowns are milled using several different sizes of precision burs that allow us to create fine occlusal details. Recommended for heavy bruxers for posterior restorations.

Manufactured from Metoxit TZP-A zirconia (ZrO₂/Y₂O₃/Al₂O₃). With a compressive strength of 2000 MPa and a flexural strength of 1200 MPa. Metoxit AG Switzerland brand zirconia - FDA and Health Canada approved.

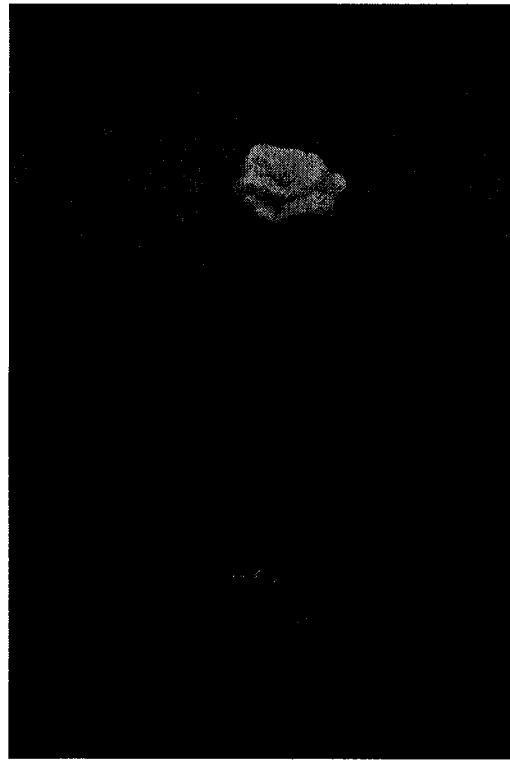
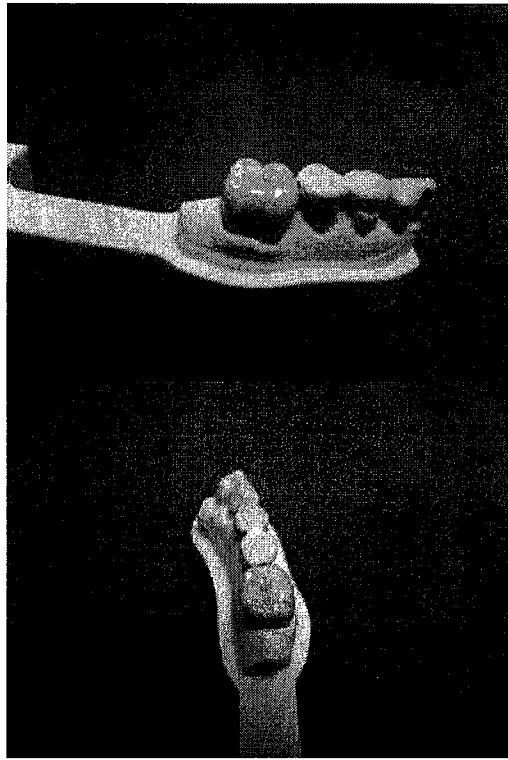
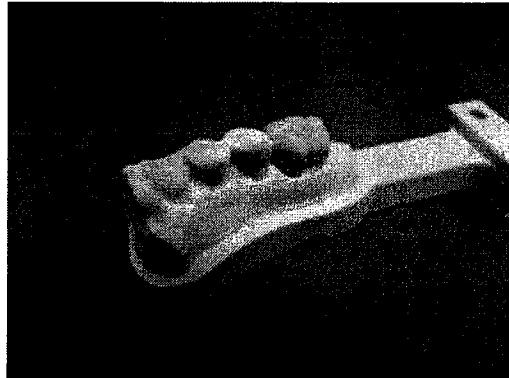


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<http://www.5axisdental.com/full-zirconia-crowns/>

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Developed By: **THE ONLINE PRACTICE**

Whitby ON Canada Dentist | Full Zirconia Crowns. Dr. Pamela Mursic is a Whitby ON Canada Dentist.

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Zirconia Crown Dental Lab

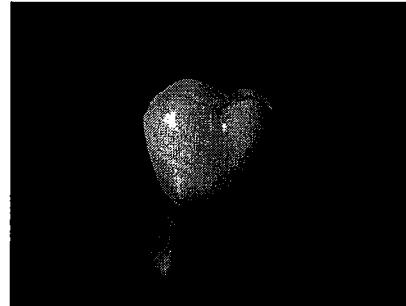
Top Quality Zirconia Crowns

Bayshore offers a variety of crown options using only the most technologically advanced, highest quality materials available to fit your needs. Our highly trained crown dental lab technicians will guide you in choosing the best option for each individual case, no matter the complexity of the restoration.

Some of our most popular products are the Z Crown™ Solid Zirconia Crown, and the Z Crown™ Layered Zirconia Crown.

Z Crown™ Solid

Full Contour Zirconia Crown



Our Z Crown™ Solid is made from yttria stabilized Zirconia, creating an esthetic, biocompatible, and completely chip-resistant crown with a natural, vibrant translucency. Fabricated using Bayshore's state-of-the-art CAD/CAM technology, quality and consistency are ensured in every case.

Make the move to metal free without compromising strength,

quality, or consistency.

The Z Crown™ Solid is *the* esthetic alternative to full cast crowns.

Features

- On-site, state-of-the-art CAD/CAM technology
- 1200 MPa flexural strength
- High level of biocompatibility

Benefits

- Esthetic alternative to full cast crowns and metal occlusals
- Completely chip-resistant (solid Zirconia)
- Saves tooth structure (minimal shoulder preparation)
- Glazed final restoration prevents plaque buildup and opposing dentition wear
- Precise marginal fit

If you would like more information on Z Crown™ Solid, or our full-service crown dental lab, [contact us today!](#)

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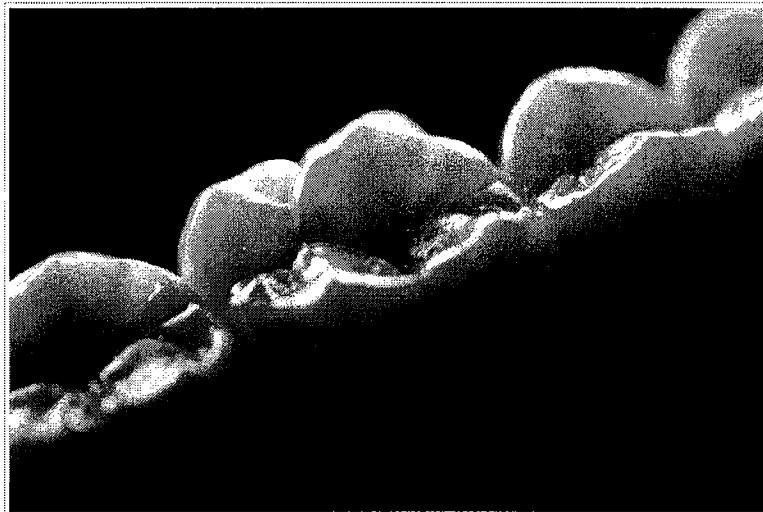
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ADT Full Zirconia

High Translucency Full contour Zirconia Restorations



ADT FZ is milled from the most esthetic full contour zirconia available. The Material is isostatically pressed zirconia blocks manufactured in Germany. We mill your monolithic restoration and perform a multi-color shading process that dramatically enhances the esthetics.

ADT FZ is indicated for full crowns and bridges up to 12 units. This product is available in 16 Vita shades. To enhance the esthetics even further, we offer five modifier shades: Violet, Gray, Brown, Orange and Pink. Tooth preparation requirements can be that of a PFM or an all ceramic material. In addition, full contour zirconia can be conventionally cemented.

In addition to its strength and beauty, multiple studies have shown full zirconia restorations to be gentler to surrounding dentition than conventional PFM's.

- Lifetime guarantee against breakage
- Chip Resistant
- Less wear to adjacent teeth than PFM
- Conventional cement protocol
- Conventional tooth preparation
- 1100 Mpa flexural strength
- Three times the strength of e.max
- Available in 16 Vita shades with
- Competitive pricing helps increase your profitability
- Award winning material (JDT 2011 WOW Product of the year!)



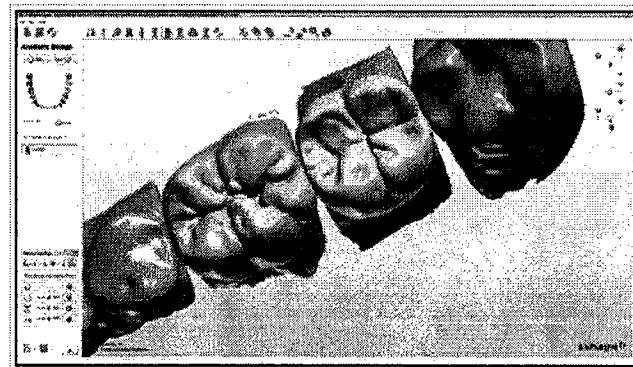
ADT's technical capabilities ensure these products are milled precisely to provide you with excellent fitting restoration for fast seating times. The combination of automation and use of a low cost, yet high quality material allows us to offer you the best restorations for your patients while saving you time and money.

Indications

Full contour zirconia for crowns and bridges up to 12 units. Ideal product for replacement of full gold crowns and PFMs.

Technical Specs

- Flexural strength - 1,100 MPa
- Compressive Strength - 3,000 MPa
- Conventional cementation
- Conventional tooth preparation



Cementation

- RelyX™ Ultimate Adhesive Resin Cement with Scotchbond™ Universal Adhesive
- RelyX™ Unicem 2 Self-Adhesive Resin Cement

Please see the manufacturer's Instructions for Use for the proper cementation procedure.

ADA Codes

D2740 Crown
D6245 Pontic Porcelain/Ceramic

Links to wear studies of FZ to enamel:

A study on the in-vitro wear of the natural tooth structure by opposing zirconia. Journal of Advanced Prosthodontics.

Wear Study of Zirconia to opposing enamel. Clinicians Report.

Two-body wear of different ceramic materials opposed to zirconia ceramic. Journal of prosthetic Dentistry

Ask Dr. Christensen

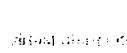
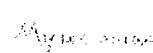
Our Full contour Zirconia vs the sledge hammer!

As an example of the strength of our full contour zirconia we tested it (and other materials) against a 14 pond sledge hammer. For results click on the arrow to the right.



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Exhibit 106



PRODUCTS

DENTIST SUPPORT

SERVICE CENTER

TESTIMONIALS

ABOUT US

CONTACT US

PH: 877.337.7800



Custom-crafted to your specifications.
(And we'll sink our teeth into any challenge.)

PFM Full Cast Restoration

All Ceramics

Cercon

TPS Empress

Wol-Ceram

IPS e.max

Z-Crown Solid Zirconia

Z-Crown Layered Zirconia

Removables

Implants

Fierce Mouthguards

Orthodontics

Other Services & Supplies

Z-Crown Solid Zirconia

Z-Crown Solid is monolithic and made from 100% pure zirconia. At 1200 MPa, the Z-Crown has a comparable flexural strength of traditional porcelain-fused-to-metal restorations while maintaining a natural and vibrant translucency.

The product 100% metal-free, a feature that prevents gingival darkening and removes the possibility of exposing metallic margins if gum recession begins. They are naturally esthetic, transmit the color of adjacent teeth and can be matched to any shade. Z-Crown Solid is one of the strongest restorations available for any patient who may have bruxing or grinding issues. Utilizing CAD/CAM technology, it also has a precise marginal fit that can significantly reduce chair time. Since traditional cementation is recommended, there is also no need to bond the restoration.

Features

- 1200 MPa flexural strength
- Highly biocompatible
- Low CTE
- CAD/CAM technology
- CAM only option
- White and shaded blanks
- Any design
- Non-Feldspathic porcelains
- Bond or cement

Benefits

- Long-term reliability
- Healthy tissue response
- Synthetic ceramics for low wear
- Laser precision
- Custom position pontics — without library
- Better shading
- Same as alloy without special needs
- Natural opalescence and translucency
- Versatility of choice



LIVE CHAT

How can we help you today?

ONLINE NOW

Z-Crown Zirconia Product Gallery



I'm shipping my case on:

Date:

"The technicians at DDS Lab truly have become a part of my team. They follow my prescription and diligently work with me on my cases..."

At DDS Lab, we have technicians on staff whose expertise aided the research and introduction of the Z-Crown product to the dental profession in the United States. Our technicians can create crowns and bridges of any size and specification with laser precision and esthetic luminescence.

EXHIBIT 106 -140-

<http://www.ddslab.com/products/all-ceramics/z-crown-zirconia/>

11/26/2012

*especially the really
complicated cases."*

*-Dr. Susannah Bohannon
Olympia, WA*



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Exhibit 107

HOME LOGIN REGISTRATION



- Articles/Studies
- News
- Regulatory
- Testimonials/Videos

**“Because every child
is special!**

...And So is Every Smile.



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NuSmile ZR represents the perfect balance between art and science. Made from high grade monolithic zirconia ceramic, NuSmile ZR looks like the real thing and is 9 times stronger than natural teeth. Easy to place, NuSmile ZR offers the highest esthetics to satisfy the most demanding clinicians and parents. Our latest crown offers superior durability to last until the tooth exfoliates without needing any ongoing repairs. The translucency of our zirconia ceramic has been optimized for both natural esthetics and to prevent the problem of dark tooth show through of pulpally treated teeth, ensuring continued satisfaction with the restoration over time. **Nothing beats a NuSmile.**

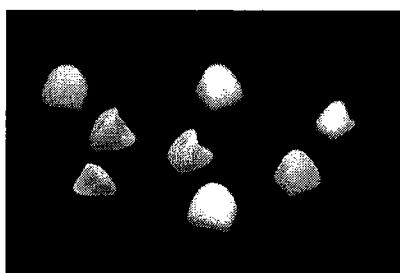
[General Information](#)

[Case Examples](#)

[Instructions for Use](#)

[Watch ZR](#)

[Video/Request Sample](#)



Superior esthetics
Anatomically contoured
Strong and metal free
Easy to use - conservative preparations
Superior durability
Excellent biocompatibility
Autoclavable

Follow this link to our sister company:



laboratory specializing in orthodontic,
pediatric and TMD appliances.

1-800-346-5133



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Exhibit 108



Welcome to Crown Dental Laboratory!

(800)680-8608

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[Prettau Bridge](#)

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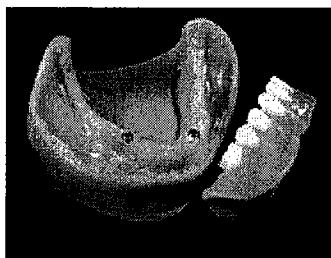
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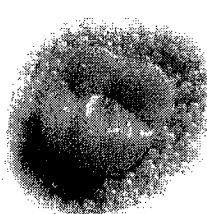
[Lab Schedule](#)

[Contact Us](#)

Crown Dental Lab can meet all of your implant restoration needs, from Removable solutions like Locator Over-dentures, to the absolute latest in Screw Retained Hybrid Restorations like our full zirconia Prettau Bridge.

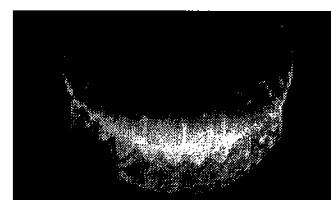


Implant Locator Over-Dentures



360Zr Full Contour Zirconia Crown

Let Crown Dental Lab show you how you can provide a strong, full contour Zirconia Crown at a price that will meet every budget. Ask us about the 360Zr Crown.

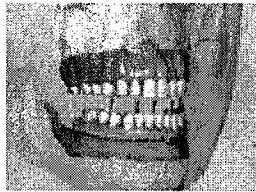


Prettau Bridge Full Zirconia Hybrid

Crown Dental Lab hand mills this full arch out of one solid disc of Zirconia. This screw retained Full arch Hybrid gives you the strength and esthetics that will excite your patients. Learn more about the Prettau Bridge from Crown Dental Lab.

STAUB
CRANIAL

**Ask us about our
expertise in Screw
Retained Hybrid
Restorations**



*Deliver dentures in just 3
appointments!!* Let Crown
Dental Lab, a fully certified
Staub Cranial lab, show you
how easy it can be.

**Check out our
turnaround times by
clicking above!**

Website powered by Network Solutions®

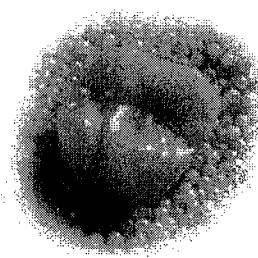


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Crown and Bridge

Our Crown and Bridge department offers a full range of choices to meet the specific treatment plans you have chosen for your patients. We provide traditional PFM in High Noble, Semi-precious, Non-precious, Zirconia and Titanium.

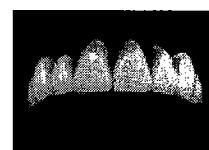
If your patient prefers the option of full metal restoration, we can provide you with the metal solution of your choice. Or, if you prefer a more natural appearance, we offer a full contour, solid Zirconia option in any Vita Shade required.



360Zr Full Contour Zirconia Crown

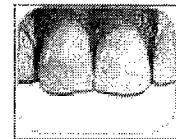


Full Cast Crowns



Multi-Unit Bridge

If you would like more details regarding the full capabilites of our Crown and Bridge Department, please contact us by email at: mikestafford@crowndental.biz or call (800)680-8608 and ask for Mike Stafford.



Anterior PFM Crowns



Diagnostic Wax Up

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Exhibit 109

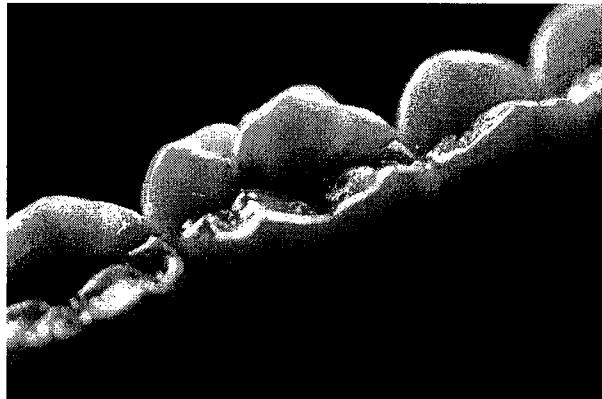
[Products](#)[Back to the product gallery](#)[CAP FZ - Full Zirconia](#)

CAP FZ - Full Contour Zirconia

[Introduction](#)[Features and Benefits](#)[Stain and Glaze Instructions](#)[Resources and Downloads](#)[Technical Specs](#)[Request a Sample](#)[Lifetime Warranty](#)

CAP FZ - Full Contour Zirconia with MultiShade

CAP FZ is milled from the most esthetic full contour zirconia available. We mill your restoration and perform a multi-color shading process that dramatically enhances the esthetics. We then sinter the restoration and return it to you ready to stain and glaze. CAP FZ is indicated for full crowns and small bridges. We are now accepting digital files from 3Shape or Dental Wings, or we can produce CAP FZ from your models using our proprietary anatomic library. We will return your restoration ready for stain and glaze.



Journal of Dental Technology's
WOW!
2011

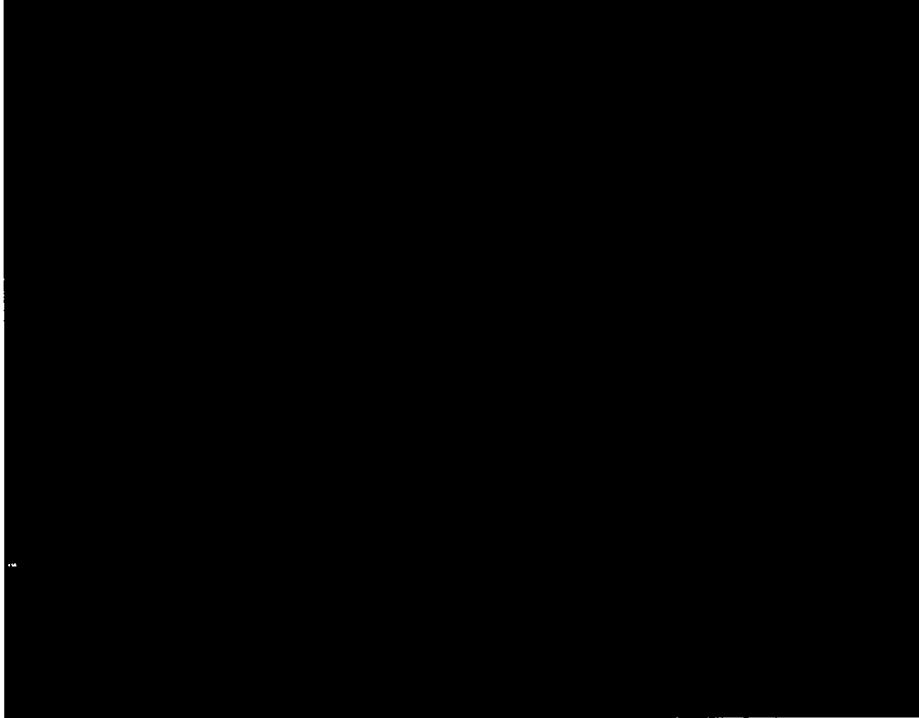
IDENTCERAM

C
Custom
CAP FZ |
08
Lifetime
Against
See terms: [http://cap-us.com](#)
Denti

Identceram stickers shipped
with every CAP Full Zirconia
order

CAP Warranty stickers
shipped with every qualifying
order

Learn why CAP FZ is better and how it's made



CAP Warranty

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

HOW TO BUY

FIND OUT MORE

Exhibit 110



TOMORROW'S TECHNOLOGY...
YESTERDAY'S PERSONAL SERVICE

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PRODUCTS/SERVICES
CUSTOMER CENTER
CE COURSES
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ABOUT US

WORK
AUTHORIZATION
IVOCLEAN
BROCHURE



What is TLZ?

TLZ is our all-zirconia, monolithic crown or bridge restoration. TLZ is guaranteed against breakage for the life of the patient. Tested at a flexural strength of 850 MPa, our High-Translucency, monolithic formula is stronger than nearly all other restorations on the market. A unique fabrication process makes TLZ beautiful, lifelike and a high recommendation from ROE.

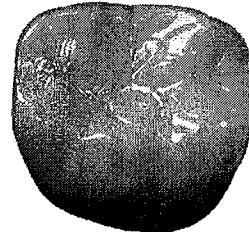
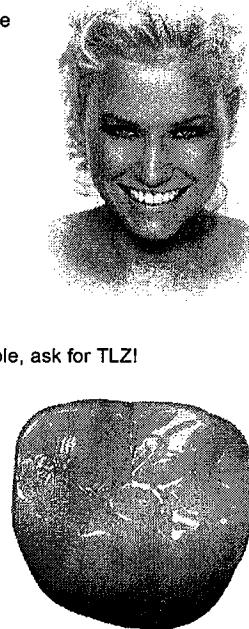
TLZ is appropriate for posterior restorations, is completed in just 6 laboratory days and is guaranteed to satisfy.

When you need the strongest restoration available, ask for TLZ!

Crowns for Life™

Limited Lifetime Warranty Statement

Crowns for Life™ applies to ROE Dental Laboratory's TLZ all zirconia crowns. TLZ is an acronym for Translithic Zirconia, the material used to fabricate TLZ crowns. This is a warranty against breakage resulting from normal mastication. This is not a warranty against shade change, wear, or replacement required from additional dental procedures. This limited warranty covers replacement of the TLZ crown only, and not any costs associated with removal or replacement. Replacement with an alternate restorative material may result in additional costs.



How is it designed for dental?

Zirconia, which is unearthed as zirconium dioxide, is a white crystalline oxide that exists in three phases, cubic, tetragonal, and monoclinic, depending on temperature and pressure formation. In dentistry we concern ourselves with the latter two. Zirconia in the pure tetragonal phase is unstable. In order to create the milling blocks used in our machines, dental manufacturers add yttria, creating yttria-stabilized tetragonal polycrystals (Y-TZP)2. In this state zirconia is extremely hard and possesses a unique characteristic called transformation toughening. When tensile stress is introduced from crack propagation, the tetragonal formation morphs into monoclinic, increasing the volume 3 to 5%, and subsequently transforms the stress from tensile to compressive. This self-healing mechanism makes zirconia the ideal material for the oral environment.

In-operatory adjustment of zirconia As mentioned above, micro crack propagation is prevented while the monoclinic transformation occurs, thereby increasing surface tension and tensile strength (i.e., - theoretically, grinding can

Cerec In-Lab / Cadent
iTero
Porcelain To Zirconia
Monolithic Zirconia
IPS Empress Esthetic
IPS E.max
TLZ Zirconia
Lava
Bellglass
Tescera
PFM & All Cast
Other Fixed Restorations

increase the strength of Y-TZP zirconia). But before grinding-away on your crowns, you should observe certain criteria. The severity of grinding and the rise in temperature will affect the volume percentage of toughening. We recommend using fine-grade burs and copious amounts of water coolant to decrease heat generation. Researchers have studied the quality of diamond particles impregnated in dental burs, the hardness of the binding material, and the precision and centricity of the shafts, and have found that no one manufacturer has a superior product. All manufacturers agree that hydration and very light-to-no pressure is the best technique – let the bur do the work and avoid dull tools. Also, the inside of a coping or monolithic restoration must be left untouched. It is recommended that if internal adjustments are needed for seating, the preparation should be adjusted.

Wear to opposing A common question that arises about our TLZ allzirconia restorations concerns the wear effects they have on opposing dentition. There are many documented studies measuring the wear of zirconia against fluorapatite, porcelain, gold, lithium dicilicate, lucite etc. These invitro studies can be summarized by focusing on particle size and finished surfaces. Zirconia is comprised of ultra-fine particles that do not become saw-tooth when roughened, unlike standard porcelains used in dental restorations. This characteristic evidently leads to low-wear of opposing enamel. A Study in J Adv Prosthodont 2010;2:111-5 showed that wear to the antagonist teeth is much less than that of feldspathic porcelains. Moreover, the study agrees with many other studies we've reviewed, zirconia shows very low wear when highly polished.

Rella Christiansan's TRAC Research group has released preliminary results of a 7-year full-contour zirconia wear study which supports both of these claims. The study seeks to measure the amount of wear zirconia and other monolithic restorations exhibit invitro. After one year, the "very promising" results show that zirconia "mimics" natural dentition. Currently many other companies are completing invitivo wear studies. We will keep you informed as further studies are published.

ROE RECOMMENDATION

Posterior crowns

PRIMERS & CLEANING AGENT:

Use primers when mechanical retention is minimal. They generate a sound bond between the restoration and the cementation material Monobond

IvocleanTM & MonobondTM Plus - Ivoclar Vivadent
Monobond Plus - Ivoclar Vivadent
ZPrime - Bisco
Scotchbond - 3M

FLEXURAL STRENGTH
850 mpa

PREPARATION

Conventional C&B(chamfer)

RECOMMENDED BUR KITS FOR ADJUSTING ZIRCONIA:

SS White® The Great White® Z
Komet USA LD0540 Zirc / emax Adjustment Kit
Brassler USA KO196

ADA CODES

D2740 Crown - Porcelain/Ceramic Substrate
D6245 Pontic Porcelain/Ceramic
D6740 Abutment Crown Porcelain/CeramicC



800.228.6663

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1 ***Glidewell Laboratories v. Keating Dental Arts, Inc.***
2 United States District Court, Central, Case No. SACV11-01309-DOC (ANx)

3 **CERTIFICATE OF SERVICE**

4 I hereby certify that on November 26, 2012, I electronically filed the
5 document described as **SUPPLEMENTAL APPENDIX OF EVIDENCE IN**
6 **SUPPORT OF GLIDEWELL'S OPPOSITIONS TO KEATING'S MOTIONS**
7 **FOR SUMMARY JUDGMENT** with the Clerk of the Court using the CM/ECF
8 System which will send notification of such filing to the following:

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10 Jeffrey L. Van Hoosear
11 Lynda J Zadra-Symes
12 Knobbe Martens Olson and Bear LLP
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23 Dated November 26, 2012

24 SNELL & WILMER L.L.P.

25 By: *s/Philip J. Graves*
26 Philip J. Graves
27 Greer N. Shaw

28 Attorneys for Plaintiff
James R. Glidewell Dental Ceramics, Inc.
dba GLIDEWELL LABORATORIES

16139994.1

Certificate of Service
SACV11-01309-DOC (ANx)